

# AUTOMATIC CONTROL IN INDUSTRY

The University of Toronto  
Division of Extension  
in co-operation with the  
Faculty of Applied Science  
and Engineering  
Federal Department of Industry  
Canadian Manufacturers' Association

TORONTO / FEBRUARY 21-22/68

This program has been arranged for senior management people in industry. Its objective is to give management a better understanding of automatic control techniques and the practical applications made possible by the use of computers. In the presentations of papers complex technical aspects of automatic control will be avoided and industrial applications will be emphasized. This program should provide stimulation for those eager to keep themselves and their organization efficient and effective by the application of new technology to their industry.

The program commences with a dinner on the evening of February 21st. Senator the Honourable Maurice Lamontagne will be the guest speaker.

The speakers are national and international authorities who will orient their presentations to the management viewpoint. There will be opportunity to meet the speakers and faculty and to present questions.

Professor J. G. Balchen, Vice-Chairman of the International Federation of Automatic Control, will speak at the luncheon on February 22nd.

FOR WHOM: Senior Management

WHEN: February 21 and 22

WHERE: St. Michael's College,  
University of Toronto,  
Toronto, Ontario

FEE: \$35.00 — the fee covers the cost of tuition, printed materials, reception, dinner and luncheon.

ACCOMMODATION: For those who wish accommodation there are numerous hotels nearby within either walking distance or subway travel.

REGISTRATION: Application forms should be forwarded before February 14th, 1968, to: University of Toronto, Division of Extension, Automatic Control in Industry, 84 Queen's Park, Toronto 5, Ontario

## REGISTRATION FORM

<b>Seminar</b>		<b>AUTOMATIC CONTROL IN INDUSTRY</b>		<b>February 21, 22</b>
Mr. ....	.....	NAME (PLEASE PRINT)	.....	.....
Ms. ....	.....	NAME (PLEASE PRINT)	.....	.....
Miss ....	.....	NAME (PLEASE PRINT)	.....	.....
Address .....	NUMBER & STREET	CITY	PROVINCE	.....
Company .....	.....	.....	.....	.....
Position .....	.....	.....	.....	.....
Business Address .....	.....	.....	.....	.....
Home Telephone .....	.....	.....	.....	.....
Fee: \$35.00	Cash <input type="checkbox"/>	Personal Cheque <input type="checkbox"/>	Business Telephone .....	Company Cheque <input type="checkbox"/>
My cheque or money order for the tuition fee in the amount of \$35.00 payable at port to the University of Toronto, is enclosed.				
Date .....	Signature .....	OFFICE USE R. No. .... C.A. ....		

Send to:  
BUSINESS AND PROFESSIONAL COURSES  
DIVISION OF EXTENSION  
UNIVERSITY OF TORONTO  
84 QUEEN'S PARK  
TORONTO 5, ONTARIO

## PROGRAM

### February 21, 1968

6:30 - 7:45 p.m. Registration and Reception  
The Lounge, Brennan Hall, University of St. Michael's College

7:45 - 9:30 p.m. Dinner  
Welcome: MR. G. H. BOYES  
University of Toronto  
Speaker: SENATOR THE HONOURABLE MAURICE LAMONTAGNE

#### SESSION NO. 1

Government Incentive for Industrial Research and Development  
Assembly Hall, Brennan Hall

9:30 - 10:30 p.m. MR. J. L. ORR  
Industrial Research Adviser, Department of Industry, Ottawa, Ontario.

### February 22, 1968

#### SESSION NO. 2

STATE OF THE ART IN PROCESS CONTROL  
Chairman: PROFESSOR H. W. SMITH  
Carr Hall, University of St. Michael's College  
University of Toronto, Toronto

8:30 - 9:10 a.m. Principles of Automatic Control  
DR. A. R. M. NOTON  
Head — Department of Electrical Engineering, University of Waterloo, Waterloo, Ontario.

9:10 - 9:50 a.m. Analog Instrumentation on Automatic Control  
MR. R. M. WALKER  
Fischer & Porter (Canada) Limited, Toronto, Ontario.

9:50 - 10:30 a.m. Patterns in Economic Justification for Process Computer Control  
MR. J. H. C. SCRIMGEOUR  
Canadian General Electric Company Limited, Peterborough, Ontario.

10:30 - 10:50 a.m. Coffee

10:50 - 11:20 a.m. Film — "Approaching Automation"  
This British Information Services film has been imported especially to illustrate the introduction of automatic control in British

### PROGRAM CHAIRMAN:

PROFESSOR W. G. MacELHINNEY  
Faculty of Applied Science and Engineering,  
University of Toronto.

industries at the level of simple adaptation to present equipment.

11:20 - 11:45 a.m. — Chairman's Comments — Discussion

12:00 - 1:30 p.m. Lunch  
Chairman — DR. J. M. Assembly Hall,  
HAM, DEAN Brennan Hall  
Speaker: PROFESSOR J. G. BALCHEN  
Norges Tekniske Høgskole,  
Trondheim, Norway.

#### SESSION NO. 3

CONTROL IN THE PRIMARY INDUSTRIES  
Chairman: PROFESSOR R. LUUS  
Carr Hall, University of St. Michael's College  
University of Toronto, Toronto.

1:45 - 2:00 p.m. Chairman's Opening Remarks

2:00 - 2:30 p.m. Process Control of Beneficiation Plants  
MR. J. M. FAMBELY  
Miltronics Limited, Peterborough, Ontario.

2:30 - 3:00 p.m. Some Aspects of Control of Fractionating Columns  
MR. J. R. CONNELL  
Imperial Oil Enterprises Limited, Sarnia, Ontario.

3:00 - 3:30 p.m. Control in the Steel Industry  
MR. K. R. CAMFOR  
Dominion Foundries and Steel Company Limited, Hamilton, Ontario.

3:30 - 3:45 p.m. Coffee

3:45 - 4:45 p.m. Panel, Discussion and Question Period  
MR. J. M. FAMBELY  
MR. J. R. CONNELL  
MR. K. R. CAMFOR

#### SESSION NO. 4

Control in the Secondary Manufacturing Industry  
Chairman: MR. R. A. GORDON  
Carr Hall, University of St. Michael's College

Head — Automation Section, Department of Industry, Ottawa, Ontario.

1:45 - 2:00 p.m. Chairman's Opening Remarks

2:00 - 2:30 p.m. Film Presentation  
D. E. GERRIOR  
Callins Radio Company of Canada Limited, Toronto, Ontario.

2:30 - 3:00 p.m. Automatic Machine Tool Controls  
MR. D. E. NUTTALL  
Ferranti-Packard Electric Limited, Toronto, Ontario.

3:00 - 3:30 p.m. Data Acquisition in Manufacturing Industry  
MR. W. A. CURRIE  
International Business Machines Limited, Toronto, Ontario.

3:30 - 3:45 p.m. Coffee

3:45 - 4:45 p.m. Panel, Discussion and Question Period  
MR. D. E. GERRIOR  
MR. D. E. NUTTALL  
MR. W. A. CURRIE  
PROFESSOR J. T. VANDE VEGTE  
University of Toronto

#### SESSION NO. 5

AUTOMATIC CONTROL AS A MANAGEMENT TOOL  
Chairman: MR. J. R. DICKINSON  
Carr Hall, University of St. Michael's College  
Canadian General Electric Co. Ltd., Peterborough, Ontario.

1:45 - 2:00 p.m. Chairman's Opening Remarks

2:00 - 2:30 p.m. Increased Productivity by Control of Distribution  
MR. R. F. MOYSE  
British American Oil Company, Toronto, Ontario.

2:30 - 3:00 p.m. Computer Assisted Inventory Management  
MR. R. E. CARROLL  
DCF Systems Limited, Toronto, Ontario.

3:00 - 3:30 p.m. A Management Information System for Control in a Multi-Product Plant  
MR. J. M. CROW  
Prater and Gamble Limited, Hamilton, Ontario.

3:30 - 3:45 p.m. Coffee

3:45 - 4:45 p.m. Panel, Discussion and Question Period  
MR. E. E. WALKER  
MR. R. E. CARROLL  
MR. J. M. CROW

#### SESSION NO. 6

Idea Exchange  
The Lounge, Brennan Hall

5:00 - 6:00 p.m. Cocktail Hour